INFICON

A LEYBOLD-HERAEUS COMPANY

Thin Film Deposition Controllers and Residual Gas Analyzers

PRICE LIST

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TABLE OF CONTENTS

Page

THIN FILM DEPOSITION CONTROLLERS 3-10
- IC-6000 3
  - Options 3
- XTC 4
  - Options 4
- Crystal Sensor Packages 5
- Sensor Shutters 5
- Feedthroughs 6
- Crystals 6
- Spare Parts - Crystal Sensor & Sensor Parts 7
- Accessories 8
- Sentinel 200 Replacement Parts ..... 9 & 10
- Sentinel III ..... Separate Price List

RESIDUAL GAS ANALYZERS 11-24
- QUADREX 200 RGA 11
  - Components 12
- QUADREX 100 RGA 13
  - Components 14
- QUADREX PPC - Partial Pressure Controller 15
  - Valve Packages 16
  - Spare Parts 16
  - Retrofit Kit 16
- QUADREX 200, 100 & PPC Options ..... 17 & 18
- QUADREX 200, 100 & PPC Spare Parts 19
- IPC-2 Pressure Converter 20
  - Accessories 21
- IPC-200 Mass Spectrometer Pump Carts 22
  - Options 23
- QUADREX Head Selector 24
  - Options 24

F.O.B. East Syracuse, New York
Domestic Prices - subject to change without notice
Minimum Order - $50.00

Return Materials Authorization Procedure: All instruments, accessories, and parts returned to Inficon for repair or credit must be properly packaged, insured, shipped transportation charges prepaid, and must have an authorization number issued before the material is returned. The authorization number is to be marked on all shipping labels and packing slips. Please contact your Leybold-Heraeus, Inc. sales person or Inficon's East or West Coast Service Department.

IC-6000® Deposition Process Controller

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
013-093	IC-6000S Deposition Process Controller. Quartz crystal instrument with built-in video monitor. Displays deposition data in real time in graphic and alpha/numeric formats. Allows user programmable control of up to six films in three separate automated processes, each with 32 layer steps. 100/120/200/240 Vac, 60 Hz. Includes: -One I/O module -One source/sensor module -Hand-held power controller -Interface connectors -Composite video output signal -Instruction manual Requires a sensor head with oscillator (page 5) and feedthrough.	$5,975.00	37	16.8
013-094	As above, except 50 Hz.	$5,975.00	37	16.8
013-075	IC-6000D Deposition Process Controller. Identical to IC-6000S, except two source/sensor modules are included instead of one.	$6,275.00	37	16.8
013-083	As above, except 50 Hz.	$6,275.00	37	16.8

IC-6000 Options

013-114	Computer Interface Bus - designed to conform with the RS-232C bus specifications and perform talk and listen functions. Provided in kit form for field installation.*	$ 595.00	1	.5
013-042	Source/Sensor Module. Each module will accept one crystal input and provide one source control voltage output.	$ 345.00	1	.5
750-010-G1	Software option for IC-6000 to provide Sample and Hold Control. Factory installed on new units.	$ 375.00	N.A.	
750-010-G2	As above, except in kit form for field installation. For units with serial numbers 27-0001 and higher.	$ 375.00	1	.5
750-010-G4	As above, except in kit form for field installation. For units with serial numbers lower than 27-0001.	$ 375.00	1	.5
013-044	I/O interface module, containing four inputs and four output controls.	$ 345.00	1	.5
013-043	D/A Converter. Provides 0-10 Vdc analog output, proportional to displayed rate or thickness.	$ 345.00	1	.5

*IC-6000's with serial numbers 18-0107 and lower must be returned to Inficon for installation of the Computer Interface Bus option. A nominal service fee will be charged for complete instrument modification, installation, and test. Please contact Inficon for return authorization.

Thin Film Deposition Controllers

XTC Single Film Monitor/Controller

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
751-001-G1	XTC Single Film Monitor and Controller. Complete control capability plus the added feature of RateWatcher™. 120/240 (+5, -25%) Vac, 50-60 Hz. Includes: - Hand held power controller - Interface connectors - Instruction manual Requires a sensor head with oscillator (page 5) and feedthrough.	$2,395.00	10	4.5
751-001-G2	As above, except equipped with the RS-232 Computer Interface.	$2,890.00	10	4.2

XTC Options

751-112-G1	Relay I/O - a plug-in module containing eight input relays and eight output relays.	$ 695.00	1	.5
751-045-G1	Computer Interface - Designed to conform with the RS232-C specification and perform talk and listen functions. Factory installed only.	$ 495.00	N.A.	
751-122-G1	*Computer Interface - A plug-in module conforming to the IEEE-488 bus specification provides complete interface capability with customer's system processor.	$ 520.00	1	.5
751-028-G1	Rack Adapter for mounting the XTC in a standard 19" rack. Will adapt either single unit or two units side by side.	$ 95.00	2	1.0

*The XTC will accommodate either the relay I/O or the IEEE-488 bus.

Crystal Sensor Packages

The following packages are compatible with both the XTC and IC-6000. One or more of these packages should be purchased with each controller. They are complete with integral water lines, remote oscillator and interconnect cables, in-vacuum coaxial cable, 5 spare crystals, and crystal snatcher.

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
007-206	Standard Sensor for thermal deposition.	$ 595.00	2	.9
007-215	Sputtering Sensor for sputtering or thermal depositions.	$ 745.00	3	1.4
007-207	UHV Bakeable Sensor for ultra-high vacuum applications bakeable to 450°C. Length from sensor to feedthrough flange is 12". Includes integral 2-3/4" ConFlat® flange feedthrough.	$1,095.00	6	2.7
007-208	As above except 20" length from sensor to feedthrough flange	$1,095.00	6	2.7
007-209	As above except 30" length from sensor to feedthrough flange	$1,095.00	6	2.7
750-012-G5	UHV Bakeable Sensor (same as 007-207) equipped with pneumatic shutter assembly. Length from sensor to feedthrough flange is 12". Requires control valve IPN 007-199.	$1,995.00	6	2.7
750-012-G6	As above except 20" length from sensor to feedthrough flange.	$1,995.00	6	2.7
750-012-G7	As above except 30" length from sensor to feedthrough flange.	$1,995.00	6	2.7
007-205	Dual Sensor - two crystals contained in one head. Specifically designed to use with CrystalSwitch™, complete with self-contained pneumatic shutter. Requires two source/sensor modules in the IC-6000 and IPN 007-199 valve.	$1,495.00	5	2.3
750-040-G3	Compact Sensor with rear mounted water and electrical lines for vertical installation.	$ 595.00	2	.9
007-237	As above, except 3/16" O.D. water lines.	$ 595.00	2	.9

Sensor Shutters

750-001-G3	Shutter assembly for standard or compact sensor. Requires control valve (IPN 007-199).	$ 595.00	1	.5
750-005-G1	Pneumatic Shutter Assembly for use with sputtering sensor. Requires control valve (IPN 007-199).	$ 650.00	1	.5
007-199	Pneumatic Shutter Actuator Control Valve for use with above shutter assemblies. May be mounted directly to either 2-3/4" ConFlat or 1" bolt feedthroughs. Bracket and tubing adapter supplied.	$ 125.00	1	.5

Feedthroughs

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
002-042	Standard 1" bolt hole mounting, using Viton® "O" ring seal. Contains one coaxial and two water lines.	$ 325.00	2	.9
002-043	Standard 2-3/4" ConFlat flange (copper gasket), containing one coaxial and two water lines.	$ 325.00	2	.9
002-044	Standard 2-3/4" flange (Viton gasket) containing one coaxial and two water lines. Identical to IPN 002-043 except for gasket.	$ 325.00	2	.9
002-080	Standard 2-3/4" ConFlat flange for use with dual sensor. Contains two coaxials, two water lines, and one air line.	$ 450.00	5	2.3
750-030-G1	Standard 1" bolt hole mountings for use with single shuttered heads. Contains single coaxial, double water line, and one air line for shutter assembly.	$ 345.00	2	.9

Crystals

The following crystals are compatible with all crystal sensor heads manufactured by Inficon. Choice of coating, silver or gold, is determined by the application involved.

008-009	Sensor Crystal - silver coated pattern, plano-convex, quartz, 6 MHz, 0.55" (1.4 cm) diameter.
008-010	Sensor Crystal - gold coated pattern, plano-convex, quartz, 6 MHz, 0.55" (1.4 cm) diameter.

No. of Packages (5 crystals/package)	Price Per Package Silver or Gold Crystals
1-99	$26.00
100-499	$24.50
500 and up	$23.00

Contact Inficon for prices on larger quantities.

Spare Parts - Crystal Sensors & Sensor Parts

The sensor packages may be used with any Inficon built crystal controller or monitor. They come complete with integral water lines, in-vacuum coaxial cable, 5 spare crystals, and crystal snatcher. Packages DO NOT include remote oscillator.

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
007-216	Standard Sensor - Package	$ 415.00	2	.9
007-088	Standard Sensor - Body Assembly	$ 265.00	2	.9
007-083	Standard Sensor - Crystal Holder	$ 50.00	1	.5
007-031	Sputtering Sensor - Package	$ 565.00	3	1.4
007-047	Sputtering Sensor - Front Cover	$ 285.00	2	.9
007-048	Sputtering Sensor - Body Assembly	$ 185.00	1	.5
007-049	Sputtering Sensor - Crystal Holder	$ 55.00	1	.5
007-218	Dual Sensor - Package	$1,120.00	5	2.3
007-089	Dual Sensor - Body Assembly	$ 450.00	2	.9
007-085	Dual Sensor - Actuator Assembly	$ 495.00	1	.5
007-084	Dual Sensor - Shutter Assembly	$ 45.00	1	.5
007-083	Dual Sensor - Crystal Holder	$ 50.00	1	.5
750-040-G1	Compact Sensor - Package with .125" diameter water lines, 18" long.	$ 415.00	2	.9
750-043-G1	Compact Sensor - Body Assembly	$ 265.00	2	.9
007-083	Compact Sensor - Crystal Holder	$ 50.00	1	.5
007-235	Compact Sensor - Package with .187" diameter water lines, 18" long.	$ 415.00	2	.9
007-240	Compact Sensor - Body Assembly	$ 265.00	2	.9
007-083	Compact Sensor - Crystal Holder	$ 50.00	1	.5
007-023	Ceramic Retainer for all of the above sensors	$ 55.00	1	.5
007-044	30" In-Vacuum Coaxial Cable for the above sensors	$ 45.00	1	.5
007-219	Bakeable Sensor 12" - Package	$ 930.00	6	2.7
007-220	Bakeable Sensor 20" - Package	$ 930.00	6	2.7
007-221	Bakeable Sensor 30" - Package	$ 930.00	6	2.7
750-012-G1	Bakeable Sensor with Pneumatic Shutter 12"	$1,815.00	6	2.7
750-012-G2	Bakeable Sensor with Pneumatic Shutter 20"	$1,815.00	6	2.7
750-012-G3	Bakeable Sensor with Pneumatic Shutter 30"	$1,815.00	6	2.7
007-097	Crystal Holder for Bakeable Sensors	$ 60.00	1	.5
007-064	Ceramic Retainer for Bakeable Sensors	$ 50.00	1	.5

Accessories

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
007-251	Remote Oscillator and interconnecting cables for use with all of Inficon's crystal sensor heads.	$195.00	1	.5
013-084	10' Cable extension for installations requiring additional cable length between oscillator and control unit. Order one for each additional 10'. Maximum overall length 30'.	$ 60.00	1	.5
013-001	Remote Oscillator without interconnect cables.	$125.00	1	.5
013-067	10' Cable for connecting remote oscillator to control unit.	$ 60.00	1	.5
013-070	6" Cable for connecting oscillator to feedthrough.	$ 30.00	1	.5
074-062	XTC Instruction Manual.	$ 60.00	3	1.4
074-003	IC-6000 Instruction Manual.	$ 60.00	3	1.4
070-237	Viton® O-Ring Gasket for 1" feedthrough.	$ 2.50	.1	.05
012-328	Copper O-Ring Gasket for 2-3/4" ConFlat flange.	$ 3.00	.2	.1
002-064	Viton O-Ring Gasket for 2-3/4" feedthrough.	$ 5.00	.1	.05
008-007	Crystal Snatcher - used to remove ceramic retainer from top of crystal to facilitate crystal changing.	$ 5.50	1	.5

® ConFlat is a registered trademark of Varian.
® IC-6000 is a registered trademark of Inficon Leybold-Heraeus, Inc.
® Viton is a registered trademark of E. I. DuPont de Nemours & Company.
RateWatcher™ is a trademark of Inficon Leybold-Heraeus, Inc.
CrystalSwitch™ is a trademark of Inficon Leybold-Heraeus, Inc.

Sentinel 200 Replacement Parts

Inficon Part No.	Description	Price
011-135	Sentinel 200 Control Unit	$9,900.00
011-212	Auxiliary Sensor Power Supply	$2,995.00
074-015	Instruction Manual	$ 65.00
011-122	Beam Splitter Assembly	$ 495.00
011-121	Photodetector Assembly	$1,195.00
009-139	Replacement Photomultiplier (for IPN 011-121)	$ 425.00
011-130	1" bolt Feedthrough (viton gasket)	$ 995.00
011-140	2-3/4" ConFlat Feedthrough (bakeable)	$1,395.00
009-067	Replacement Sapphire Window (for IPN 011-140)	$ 375.00
016-252-P1	Replacement Quartz Window (for IPN 011-130)	$ 17.00
016-252-P2	Replacement Quartz Window (for IPN 011-140)	$ 17.00
016-200-G1	Standard Sensor (Cable not included)	$ 795.00
016-200-G2	Low Rate Sensor (identical to IPN 016-200-G1 except for cover)	$ 795.00
016-205-P1	Replacement Cover (for IPN 016-200-G1)	$ 30.00
016-205-P2	Replacement Cover (for IPN 016-200-G2)	$ 30.00
016-201-G1	Emitter Assembly	$ 245.00
016-206-G1	Light Tube Assembly for Double Ended Sensor	$ 55.00
016-225-GX	In-vacuum Cable Assembly for IPN 016-200-G1 and G2	$ 395.00
	NOTE: The length "X" must be specified by customer (4-60" in one inch increments).	
	Covers are interchangeable to convert from standard to low rate.	
009-179	Right Angle Optical Coupling	$ 495.00
009-151	Replacement Mirror (for IPN 009-179)	$ 53.00
009-254	Straight Optical Coupling 3-6"	$ 95.00
009-154	Straight Optical Coupling 6-10"	$ 95.00
009-155	Straight Optical Coupling 10-14"	$ 95.00
009-156	Straight Optical Coupling 14-18"	$ 95.00
009-157	Straight Optical Coupling 18-22"	$ 95.00

Thin Film Deposition Controllers

Sentinel 200 Replacement Parts (Continued)

Inficon Part No.	Description	Price
011-219	GM-200 Monochromator - A compact 200 mm f/4.0 double dispersion, grating instrument that is wavelength selectable from 180-750 nm. The gratings are blazed at 240 nm and maintain high efficiency over the 200-500 nm range of interest. The resolution is selectable to 1, 2, 3, 4, or 5 nm for best performance for every process. The GM 200 is shipped complete with all optics for attachment between the feedthrough or beam splitter and photodetector.	$2,695.00

Inficon Part No.	Material		Wavelength (Å)	Price
011-302	Aluminum	Al	3961	$ 625.00
011-324	Cadmium	Cd	3261	
011-337	Carbon Dioxide	CO_2	2890	
011-317	Chromium	Cr	3605	
011-305	Cobalt	Co	2410	
011-306	Copper	Cu	3247	
011-328	Erbium	Er	4008	
011-308	Gallium	Ga	4170	
011-323	Germanium	Ge	2754	
011-304	Gold (1)	Au (1)	2676	
011-325	Gold (2)/Cobalt	Au (2)/Co	2428	
011-326	Indium	In	4511	
011-307	Iron	Fe	3720	
011-311	Lead/Titanium	Pb/Ti	3637	
011-336	Manganese	Mn	2798	
011-309	Molybdenum	Mo	3133	
011-310	Nickel	Ni	3413	
011-320	Nitrogen/Zinc	N_2/Zn	4275	
011-332	Palladium	Pd	2455	
011-330	Scandium	Sc	4020	
011-327	Silicon	Si	2520	
011-301	Silver	Ag	3281	
011-315	Tantalum	Ta	2650	
011-314	Tin	Sn	3175	
011-331	Titanium (2)	Ti (2)	3982	
011-335	Tungsten	W	2551	
011-318	Uranium/Niobium	U238/Nb	3582	
011-329	Vanadium	V	3184	
011-319	Water	H_2O	3100	
011-321	Yittrium	Y	4077	

For the new **Sentinel III** Deposition Controller pricing, see separate price sheet.

Quadrex 200 Residual Gas Analyzer Systems

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
901-001-G1	Quadrex 200 Faraday Cup System Control Unit complete with: -Spectra Library -Video Display with 7 formats -Peak Lock Circuitry and Software -Audible Leak Check -Composite Video Output Signal -Degas Function -RS-232C Interface Faraday Cup Sensor Faraday Cup Sensor Control Unit Faraday Cup Adapter 15' Faraday Cup Cable Set Quadrex 200 Manual	$12,500.00	59	26.8
901-001-G2	Quadrex 200 Faraday Cup System as described above, with 30' Faraday Cup Cable Set substituted for 15' Faraday Cup Cable Set.	$12,595.00	62	28.2
901-001-G3	Quadrex 200 Electron Multiplier/Faraday Cup System Control Unit complete with: -Spectra Library -Video Display with 7 formats -Peak Lock Circuitry and Software -Audible Leak Check -Composite Video Output Signal -Degas Function -RS-232C Interface Electron Multiplier/Faraday Cup Sensor Electron Multiplier/Faraday Cup Sensor Control Unit Electron Multiplier Adapter 15' Electron Multiplier Cable Set Quadrex 200 Manual	$14,500.00	70	31.8
901-001-G4	Quadrex Electron Multiplier/Faraday Cup System, as described above, with 30' Electron Multiplier Cable Set substituted for 15' Electron Multiplier Cable Set.	$14,595.00	73	33.2

NOTE: Applications where the process chamber pressure is from 10^{-4} torr to 10 torr require an IPC-2 Pressure Converter. Please refer to the IPC-2 section for more information.

Residual Gas Analyzers

Quadrex 200 Components

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
901-001-G10	Faraday Cup Sensor Package includes: -Faraday Cup Sensor -Faraday Cup Sensor Control -Faraday Cup Adapter -15' Faraday Cup Cable Set	$5,650.00	23	10.4
901-001-G11	Faraday Cup Sensor Package, as described above, with 30' Faraday Cup Cable Set substituted for 15' Faraday Cup Cable Set.	$5,750.00	26	11.8
901-001-G12	Electron Multiplier/Faraday Cup Sensor Package includes: -Electron Multiplier/Faraday Cup Sensor -Electron Multiplier/Faraday Cup Sensor Control -15' Electron Multiplier Cable Set	$8,100.00	33	15.0
901-001-G13	Electron Multiplier/Faraday Cup Sensor Package, as described above, with 30' Electron Multiplier Cable Set substituted for 15' Electron Multiplier Cable Set.	$8,200.00	36	16.4
901-002-G1	Quadrex 200 Control Unit for Faraday Cup or Electron Multiplier System with Video Display, Spectra Library, Peak Lock, Audible Leak Check, Composite Video Output, Degas Function, RS-232C Interface and Quadrex 200 Manual.	$7,200.00	30	13.6
019-100-G1	Faraday Cup Sensor	$3,225.00	12	5.4
019-101-G1	Electron Multiplier/Faraday Cup Sensor	$5,600.00	21	9.5
901-200-G4	Faraday Cup Sensor Control	$2,300.00	9	4.1
901-200-G3	Electron Multiplier/Faraday Cup Sensor Control	$2,600.00	10	4.5
901-003-G15	15' Faraday Cup Cable Set	$ 625.00	4	1.8
901-003-G30	30' Faraday Cup Cable Set	$ 725.00	7	3.2
901-004-G15	15' Electron Multiplier Cable Set	$ 725.00	5	2.3
901-004-G30	30' Electron Multiplier Cable Set	$ 825.00	8	3.6

Quadrex 100 Residual Gas Analyzer Systems

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
017-006-G3	Quadrex 100 Faraday Cup System Control Unit complete with: -Video Display with 5 formats -Peak Lock Circuitry and Software -Audible Leak Check -Composite Video Output Signal -Degas Function -RS-232C Interface Faraday Cup Sensor Faraday Cup Sensor Control Unit Faraday Cup Adapter 15' Faraday Cup Cable Set Quadrex 100 Manual	$ 8,900.00	59	26.8
017-006-G7	Quadrex 100 Faraday Cup System as described above, with 30' Faraday Cup Cable Set substituted for 15' Faraday Cup Cable Set.	$ 8,995.00	62	28.2
017-006-G4	Quadrex 100 Electron Multiplier System Control Unit complete with: -Video Display with 5 formats -Peak Lock Circuitry and Software -Audible Leak Check -Composite Video Output Signal -Degas Function -RS-232C Interface Electron Multiplier Sensor Electron Multiplier Sensor Control Unit 15' Electron Multiplier Cable Set Quadrex 100 Manual	$10,900.00	70	31.8
017-006-G8	Quadrex Electron Multiplier System, as described above, with 30' Electron Multiplier Cable Set substituted for 15' Electron Multiplier Cable Set.	$10,995.00	73	33.2

NOTE: A Quadrex Partial Pressure Controller retrofit system for the Quadrex 100 also is available. Please refer to the Quadrex Partial Pressure Controller section for more information.

NOTE: Applications where the process chamber pressure is from 10^{-4} torr to 10 torr require an IPC-2 Pressure Converter. Please refer to the IPC-2 section for more information.

Residual Gas Analyzers

Quadrex 100 Components

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
017-006-G11	Faraday Cup Sensor Package includes: -Faraday Cup Sensor -Faraday Cup Sensor Control -Faraday Cup Adapter -15' Faraday Cup Cable Set	$5,100.00	23	10.4
017-006-G13	Faraday Cup Sensor Package, as described above, with 30' Faraday Cup Cable Set substituted for 15' Faraday Cup Cable Set.	$5,200.00	26	11.8
017-006-G12	Electron Multiplier Sensor Package includes: -Electron Multiplier Sensor -Electron Multiplier Sensor Control -15' Electron Multiplier Cable Set	$7,100.00	33	15.0
017-006-G14	Electron Multiplier Sensor Package, as described above, with 30' Electron Multiplier Cable Set substituted for 15' Electron Multiplier Cable Set.	$7,200.00	36	16.4
017-010-G1	Quadrex 100 Control Unit for Faraday Cup or Electron Multiplier System with Video Display, Peak Lock, Audible Leak Check, Composite Video Output, Degas Function, RS-232C Interface and Quadrex 100 Manual.	$4,700.00	30	13.6
017-604	Faraday Cup Sensor	$2,900.00	12	5.4
017-605	Electron Multiplier Sensor (Includes shipping adapter housing)	$5,000.00	21	9.5
017-200-G2	Faraday Cup Sensor Control	$2,000.00	9	4.1
017-200-G1	Electron Multiplier Sensor Control	$2,300.00	10	4.5
017-119-G15	15' Faraday Cup Cable Set	$ 625.00	4	1.8
017-119-G30	30' Faraday Cup Cable Set	$ 725.00	7	3.2
017-120-G15	15' Electron Multiplier Cable Set	$ 725.00	5	2.3
017-120-G30	30' Electron Multiplier Cable Set	$ 825.00	8	3.6

Quadrex PPC - Partial Pressure Controller System

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
017-445-G5	Quadrex Partial Pressure Controller Faraday Cup System - PPC Control Unit complete with: -PPC Valve Driver Board -Video Display with 5 formats -Peak Lock Circuitry and Software -Audible Leak Check -Composite Video Output Signal -Degas Function -RS-232C Interface Faraday Cup Sensor Faraday Cup Sensor Control Unit Faraday Cup Adapter 15' Faraday Cup Cable Set Quadrex PPC Manual (Requires 1-6 PPC Valve Packages - Choose from Page 14)	$11,700.00	60	27.3
017-445-G9	Quadrex PPC Faraday Cup System, as described above, with 30' Faraday Cup Cable Set substituted for 15' cable set.	$11,795.00	63	28.6
017-445-G6	Quadrex Partial Pressure Controller Electron Multiplier System - PPC Control Unit complete with: -PPC Valve Driver Board -Video Display with 5 formats -Peak Lock Circuitry and Software -Audible Leak Check -Composite Video Output Signal -Degas Function -RS-232C Interface Electron Multiplier Sensor Electron Multiplier Sensor Control Unit Electron Multiplier Adapter 15' Electron Multiplier Cable Set Quadrex PPC Manual (Requires 1-6 PPC Valve Packages - Choose from Page 14)	$13,700.00	70	31.8
017-445-G10	Quadrex PPC Electron Multiplier System, as described above, with 30' Electron Multiplier Cable Set substituted for 15' cable set.	$13,795.00	73	33.2

NOTE: Applications where the process chamber pressure is from 10^{-4} torr to 10 torr require an IPC-2 Pressure Converter. Please refer to the IPC-2 section for more information.

Residual Gas Analyzers

Quadrex PPC Valve Packages

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
017-445-G7	PPC Solenoid Valve Package includes: 1 - PPC Valve (solenoid type) 1 - Characterization Module for solenoid valve 1 - 15' Interconnect cable	$ 390.00	3	1.5
017-445-G11	PPC Solenoid Valve Package as described above with 30' Interconnect cable substituted for 15' cable set.	$ 415.00	4	2.0
017-445-G8	PPC Piezoelectric Valve Package includes: 1 - PPC Valve (piezoelectric type) 1 - Characterization Module for piezoelectric valve 1 - 15' Interconnect cable	$ 675.00	4	1.9
017-445-G12	PPC Piezoelectric Valve Package as described above with 30' Interconnect cable substituted for 15' cable set.	$ 700.00	5	2.4

Quadrex PPC Spare Parts

017-460-G1	PPC Solenoid Valve	$ 340.00	2	1
017-461-G1	PPC Piezoelectric Valve	$ 650.00	3	1.4
017-459-G15	15' Interconnect Cable for PPC solenoid valve	$ 26.00	1	.5
017-459-G30	30' Interconnect Cable for PPC solenoid valve	$ 52.00	2	1
017-462-G15	15' Interconnect Cable for PPC piezoelectric valve	$ 26.00	1	.5
017-462-G30	30' Interconnect Cable for PPC piezoelectric valve	$ 52.00	2	1
017-442-G1	PPC Valve Driver Board	$1,250.00	1	.5

Quadrex PPC Retrofit Kit (Customer Installed)

017-447-G1	Quadrex 100 to Quadrex PPC Field Retrofit Kit includes: Front Panel and Buttons PPC Software to include RS-232C I/O Software/Digital Plotter PPC Valve Driver Board Quadrex PPC Manual Installation Instructions	$2,995.00	4	1.8

Quadrex 200, 100 & PPC Options

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
012-461	Faraday Cup Sensor Heating Jacket - Quadrex 100 and PPC.	$ 220.00	2	0.9
900-071-P1	Faraday Cup Sensor Heating Jacket - Quadrex 200	$ 220.00	2	0.9
012-460	Electron Multiplier Sensor Heating Jacket - Quadrex 100 and PPC.	$ 230.00	2	0.9
900-070-P1	Electron Multiplier Sensor Heating Jacket - Quadrex 200.	$ 230.00	2	0.9

Field Kits (Customer Installed)

017-432-G2	IEEE-488 Interface Option provides internal circuitry and software for IEEE-488 I/O.	$ 520.00	2	0.9
017-362-G2	Analog Output Option provides 0-10V DC output for each of six (6) channels displayed in table mode. Two (2) additional channels are provided for future use.	$ 450.00	2	0.9
017-422-G2	Input/Output Relay Option provides ten (10) individual inputs to turn on or off front panel emission, degas, electron multiplier, and relay push-buttons, and to activate copy and peak find functions. Eight (8) relay outputs are provided, six (6) for each of the six (6) channels displayed in the table mode, plus two (2) status relays indicating front panel ON/OFF and instrument operational status NOTE: A maximum of two options can be installed in the PPC.	$ 520.00	2	0.9
017-508	Digital Plotter includes Hewlett-Packard Model 7470A RS-232C Digital Plotter, 20' interconnect cable, and plotter manual.	$1,450.00	22	10
900-055-G1	QPAK, a communications software program that operates the Quadrex 200, Quadrex 100 and the Quadrex PPC through a diskette based IBM personal computer via RS-232C. Includes diskette, interconnect cable and manual.	$ 800.00	2	0.9
900-052-G1	QPAK, a communications software program that operates the Quadrex 200 through a Hewlett-Packard 85 personal computer via RS-232C. Includes cassette, interconnect cable and manual.	$ 800.00	2	0.9

Residual Gas Analyzers

Field Kits (Customer Installed) Continued

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
900-051-G1	QPAK, a communications software program that operates the Quadrex 100 through a Hewlett-Packard 85 personal computer via RS-232C. Includes cassette, interconnect cable and manual.	$ 700.00	2	0.9
900-054-G1	QPAK, a communications software program that operates the Quadrex PPC through a Hewlett-Packard 85 personal computer via RS-232C. Includes cassette, interconnect cable and manual.	$ 700.00	2	0.9

Quadrex 200, 100 & PPC Spare Parts

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
017-030-G1	Spare Parts Kit includes sensor filament, spare fuses and two (2) 2-3/4" copper gaskets for sensor - Quadrex 100 & PPC.	$ 160.00	3	1.4
901-005-G1	Spare Parts Kit includes sensor filament, spare spare fuses and two (2) 2-3/4" copper gaskets for sensor - Quadrex 200.	$ 160.00	3	1.4
012-138	Spare Sensor Filament - Quadrex 100 & PPC.	$ 140.00	1	.5
019-070-G1	Spare Sensor Filament - Quadrex 200.	$ 140.00	1	.5
017-031-G1	Rack Mount Adapter Kit.	$ 95.00	3	1.4
012-084	Extra Sensor Control Mounting Bracket (2-3/4").	$ 26.00	2	.9
012-324	Faraday Cup Adapter - Quadrex 100 & PPC.	$ 130.00	5	2.3
900-041-G1	Faraday Cup Adapter - Quadrex 200.	$ 130.00	5	2.3
019-090-G1	Electron Multiplier Adapter - Quadrex 200.	$ 160.00	5	2.3
017-027-G1	Quadrex 100 Upgrade Kit (for older Quadrex 100 Series 11-23 only) adds audible alarm to leak check and variable bar graph widths - Quadrex 100.	$1,000.00	4	1.8
900-070-P1	Electron Multiplier Sensor Heating Jacket - Quadrex 200.	$ 230.00	2	0.9
900-071-P1	Faraday Cup Sensor Heating Jacket - Quadrex 200.	$ 220.00	2	0.9
012-460	Electron Multiplier Sensor Heating Jacket - Quadrex 100 and PPC.	$ 230.00	2	0.9
012-461	Faraday Cup Sensor Heating Jacket - Quadrex 100 and PPC.	$ 220.00	2	0.9
074-072	Quadrex 200 RGA Manual.	$ 50.00	3.5	1.8
074-038,	Quadrex 100 RGA Manual.	$ 50.00	3.5	1.8
074-049	Quadrex PPC Manual.	$ 50.00	3.5	1.8

Residual Gas Analyzers

IPC-2 Pressure Converter

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
	IPC-2 Pressure Converter - complete with 2-3/4" ConFlat flange for system mounting, two position valve (1-1/2" I.D.) two rotatable flanges for additional mounting configurations, one orifice suitable for sampling pressures up to 1 millitorr, 10 millitorr, 150 millitorr, or 1 torr, and Instruction Manual. Without pump. Please specify orifice (see next page).			
900-002-G1	With manual valves - bakeable to 190°C.	$2,295.00	8	3.6
900-002-G2	With electropneumatic valves - bakeable to 190°C.	$2,495.00	8	3.6
	IPC-2 Pressure Converter - (as described above) except 20 liter/sec. ion pump and pump power supply, bolts, and gasket set. Please specify orifice (see next page).			
900-001-G1	With manual valves - bakeable to 190°C.	$4,995.00	83	37.7
900-001-G2	With electropneumatic valves - bakeable to 190°C.	$5,195.00	83	37.7
	IPC-2 Pressure Converter - (as described above) with Turbo Pump System including 150 liter/sec. turbomolecular pump and controller, adapter flanges, bolt set, inert gas venting device with pre-wired solenoid, mechanical pump (2.2 CFM), hoses, clamps, seals, elbow, and smoke eliminator. Please specify orifice (see next page).			
900-001-G3	With manual valves - bakeable to 190°C.	$9,395.00	133	60.5
900-001-G4	With electropneumatic valves - bakeable to 190°C.	$9,595.00	133	60.5

IPC-2 Instrument Accessories

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
012-507	1 millitorr orifice disc (maximum pressure)	$115.00	1	.5
012-247	10 millitorr orifice disc (maximum pressure)	$115.00	1	.5
012-242	150 millitorr orifice disc (maximum pressure)	$115.00	1	.5
012-241	1000 millitorr (1 torr) orifice disc (maximum pressure)	$115.00	1	.5
012-237	10 torr orifice disc (maximum pressure)	$270.00	1	.5
012-318	Restrictor Gasket - special gasket used between the pump and the IPC-2 (one included with each IPC-2).	$ 12.00	1	.5
012-328	Copper O-Ring Gasket for 2-3/4" ConFlat flange.	$ 3.00	1	.5
074-060-G1	IPC-2 Instruction Manual	$ 30.00	1	.5
	Heating Jacket System: fitted design, insulated, thermostat controlled			
900-003-G1	...for IPC-2 Faraday Cup System - Quadrex 200	$700.00	8	3.6
900-003-G2	...for IPC-2 Electron Multiplier System - Quadrex 200	$710.00	8	3.6
900-003-G3	...for IPC-2 Faraday Cup System - Quadrex 100 and Quadrex PPC	$700.00	8	3.6
900-003-G4	...for IPC-2 Electron Multiplier System - Quadrex 100 and Quadrex PPC	$710.00	8	3.6
	Turbo Pump Accessories:			
012-373	Lubrication Kit, 1 syringe with special grease	$ 26.00	2	1.0
012-400	Turbo Pump Air Cooler Kit	$285.00	5	2.3
015-532	4.5" to 2.75" adapter flange	$135.00	1	0.4
050-030-P1	6.0" to 2.75" adapter flange	$170.00	1	0.4
	High Flow Option for Turbo pumped IPC-2, available only with turbo pump systems 900-001-G3 and G4; used with Quadrex PPC:			
900-060-G1	High Flow Option, 1 torr	$127.00	1	0.4
900-060-G2	High Flow Option, 150 millitorr	$127.00	1	0.4
900-060-G3	High Flow Option, 10 millitorr	$127.00	1	0.4
900-060-G4	High Flow Option, 1 millitorr	$127.00	1	0.4

IPC-200 Mass Spectrometer Pump Carts

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
015-001-G9	IPC-200 Pump Cart with Capillary Inlet, includes: Sensor chamber, turbo pump, two (2) mechanical pumps, electrical controls and power supplies, indicating temperature controller, insulated oven, capillary, valve, and fixed orifice; pressure converter adapter flange on vacuum chamber; all mounted on casters (120V, 60 Hz). (Specify capillary length below.)	$22,950.00	370	168
015-036-P1	3' Capillary	Included in above price		
015-037-P1	10' Capillary	Included in above price		
015-038-P1	50' Capillary	Included in above price		
015-001-G5	Pump Cart with Batch Inlet, includes: Sensor chamber, turbo pump, two (2) mechanical pumps, electrical controls and power supplies, pressure gauge, indicating temperature controller, insulated oven, expansion chamber, standard fittings inlet and septum inlet, inlet and outlet valves, analyzer valve and orifice; all mounted on casters. (120V, 60 Hz.)	$23,950.00	370	168
	Absolute pressure gauge for expansion chamber.	Add $ 1,500.00		

NOTE: For a complete system, specify the Quadrex 100 (100 AMU) or Quadrex 200 (200 AMU). For best performance the Electron Multiplier systems are recommended.

IPC-200 Options

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
015-048	Capillary to Batch Inlet Conversion Kit, including pressure gauge, expansion chamber, septum inlet, and all parts necessary for conversion.	$3,100.00	10	4.5
015-049	Batch to Capillary Inlet Conversion Kit, including capillary and all parts necessary for conversion.	$1,100.00	8	3.6
*015-200-G2	Nitrogen Purge Option, including flow controller pressure sensor with low and high indicators, audible alarm, internal plumbing to rough vacuum pumps and system exhaust outlet.	$2,950.00	20	9.1
*015-005-S128	Multi-Capillary Option, including four port manual valve and three capillaries (atmospheric to 400 torr, 400 torr to 40 torr, 40 torr to 5 torr).	$1,600.00	15	6.8
074-025	IPC-200 Manual	$ 50.00	3.5	1.8

*NOTE: The above options are factory installed in the IPC-200.

Residual Gas Analyzers

Quadrex Head Selector

Inficon Part No.	Description	Price	Shipping Wt. lbs.	kg.
902-001-G1	Quadrex Head Selector for Quadrex Family Residual Gas Analyzers (200, PPC or 100). Includes: - 4 Sensor Control Interfaces - 3' cable	$2,500.00	15	6.8

Quadrex Head Selector Options

902-122-G1	Sensor Control Interface - one each required for each sensor. Maximum of eight installed per Head Selector.	$ 200.00	N.A.	
902-005-G1	Rack mount adapter kit.	$ 95.00	3	1.4
074-080	Quadrex Head Selector Manual	$ 50.00	3.5	1.8

Beginning January 1985, Inficon's new sales force will be ready to meet your thin film and residual gas analysis needs. The highly capable and experienced Leybold-Heraeus, Inc. sales force will be representing both Inficon Leybold-Heraeus and Leybold-Heraeus Vacuum Products.

In addition, Inficon will be bringing customer applications and support closer to you with Inficon regional product managers located in Leybold-Heraeus, Inc. regional offices near you. Inficon Leybold-Heraeus is committed to quality products, support, service and customer satisfaction.

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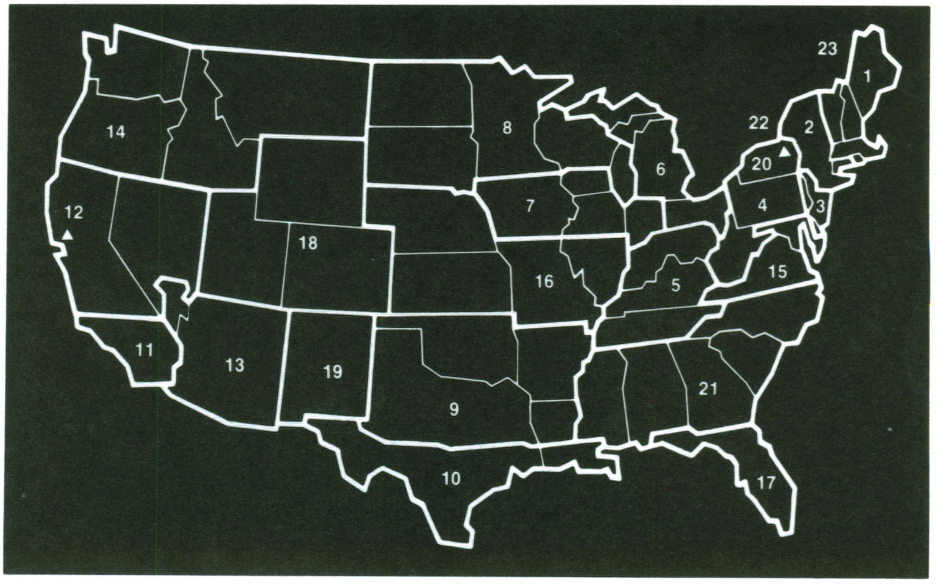

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Inficon Leybold-Heraeus is the leading producer of residual gas analyzers, vacuum deposition controllers and halogen leak detectors. Inficon is also a world innovator in the development of sensors, digital instrumentation and responsive software for the industries we serve.

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